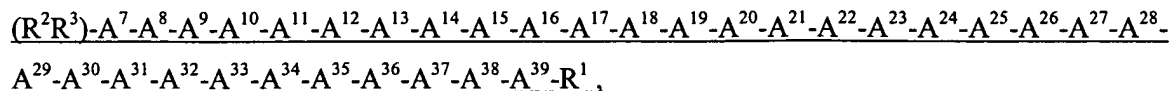


Complete listing of all claims, with markings and status identifiers
(currently amended claims showing deletions by ~~strike through~~ and additions by underlining)

1. (Canceled)

2. (Currently amended) A compound ~~according to claim 1~~ of formula (I),



(I)

wherein

A⁷ is L-His, Ura, Paa, Pta, Amp, Tma-His, des-amino-His, or deleted;

A⁸ is Ala, β -Ala, Gly, Ser, D-Ala, Aib, Acc, N-Me-Ala, N-Me-D-Ala or N-Me-Gly;

A⁹ is Glu, N-Me-Glu, N-Me-Asp or Asp;

A¹⁰ is Gly, Acc, β -Ala or Aib;

A¹¹ is Thr;

A¹² is Phe, Acc, Aic, Aib, 2-Pal, 3-Pal, 4-Pal, 1Nal, 2Nal, Cha, Trp or (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe;

A¹³ is Thr;

A¹⁴ is Ser or Aib;

A¹⁵ is Asp;

A¹⁶ is Val, Acc, Aib, Leu, Ile, Tle, Nle, Abu, Ala or Cha;

A¹⁷ is Ser;

A¹⁸ is Ser or Lys;

A¹⁹ is Tyr, Cha, Phe, 2-Pal, 3-Pal, 4-Pal, 1Nal, 2Nal, Acc or (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe;

A²⁰ is Leu, Acc, Aib, Nle, Ile, Cha, Tle, Val, Phe or (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe;

A²¹ is Glu;

A²² is Gly, Acc, β -Ala, Glu or Aib;

A²³ is Gln or Glu;

A²⁴ is Ala, Aib, Val, Abu, Tle or Acc;

A²⁵ is Ala, Aib, Val, Abu, Tle, Acc, Lys, Arg, hArg, Orn, HN-CH((CH₂)_n-N(R¹⁰R¹¹))-C(O) or HN-CH((CH₂)_e-X³)-C(O);

A²⁶ is Lys, Arg, hArg, Orn, Lys(N^e-decanoyl), HN-CH((CH₂)_n-N(R¹⁰R¹¹))-C(O) or HN-CH((CH₂)_e-X³)-C(O);

A²⁷ is Glu, Leu, Aib or Lys;

A²⁸ is Phe, 2-Pal, 3-Pal, 4-Pal, 1Nal, 2Nal, (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe, Aic, Acc, Aib, Cha or Trp;

A²⁹ is Ile, Acc, Aib, Leu, Nle, Cha, Tle, Val, Abu, Ala or Phe;

A³⁰ is Ala, Aib or Acc;

A³¹ is Trp, Phe, 1Nal or 2Nal;

A³² is Leu, Acc, Aib, Nle, Ile, Cha, Tle, Phe, (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe or Ala;

A³³ is Val, Acc, Aib, Leu, Ile, Tle, Nle, Cha, Ala, Phe, Abu, Lys or (X⁶,X⁷,X⁸,X⁹,X¹⁰)Phe;

A³⁴ is Lys, Arg, hArg, Orn, HN-CH((CH₂)_n-N(R¹⁰R¹¹))-C(O) or HN-CH((CH₂)_e-X³)-C(O);

A³⁵ is β-Ala, D-Ala, Gaba, Ava, HN-(CH₂)_m-C(O), Aib, Acc, D-Arg or a D-amino acid;

A³⁶ is L- or D-Arg, D- or L-Lys, or Lys(N^e-decanoyl) or Lys(N^e-dodecanoyl) or D- or L-hArg, D- or L-Orn or HN-CH((CH₂)_n-N(R¹⁰R¹¹))-C(O), or HN-CH((CH₂)_e-X³)-C(O);

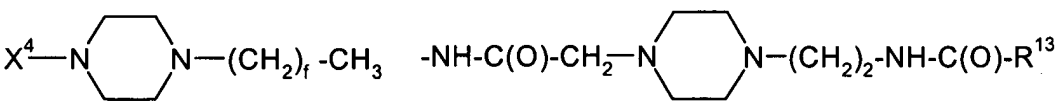
A³⁷ is Gly, β-Ala, Gaba, Aib, Acc, Act, Apc, Aun, Ava, Pro, Dhp, Dmt, Pip, L- or

D- Arg, L- or D- Asp or Glu, Lys(N^e-decanoyl), Lys(N^e-dodecanoyl), Lys(N^e-octanoyl), Lys(N^e-tetradecanoyl), or Ser(O-decanoyl);

A³⁸ is D- or L- His, L- or D-Ala, Asn, Gln, Ser, Thr, Acc, Ado, Aib, Apc, Act, Arg, Ava, Gly, β-Ala, Gaba, or HN-(CH₂)_s-C(O);

A³⁹ is D- or L- His, L- or D-Ala, Asn, Gln, Ser, Thr, Acc, Ado, Aib, Apc, Act, Arg, Aun, Gly, β-Ala, Gaba, Lys(N^e-octanoyl), HN-(CH₂)_s-C(O), or deleted;

R¹ is OH, NH₂; (C₁-C₃₀)alkoxy, or NH-X²-CH₂-Z⁰, wherein X² is a (C₀-C₂), (C₄-C₉) or (C₁₁-C₁₉)hydrocarbon moiety and Z⁰ is H, OH, CO₂H or CONH₂;

X³ is 

or -C(O)-NHR¹², wherein X⁴ is, independently for each occurrence, -C(O)-, -NH-C(O)- or -CH₂-, and wherein f is, independently for each occurrence, an integer from 1 to 29 inclusive;

each of R² and R³ is independently selected from the group consisting of H, (C₁-C₃₀)alkyl, (C₂-C₃₀)alkenyl, optionally substituted phenyl(C₁-C₃₀)alkyl, optionally substituted naphthyl(C₁-C₃₀)alkyl, hydroxy(C₁-C₃₀)alkyl, hydroxy(C₂-C₃₀)alkenyl, hydroxyphenyl(C₁-C₃₀)alkyl, and hydroxynaphthyl(C₁-C₃₀)alkyl;

wherein the phenyl group of said optionally substituted phenyl(C₁-C₃₀)alkyl moiety, and said naphthyl group of said optionally substituted naphthyl(C₁-C₃₀)alkyl moiety each is, independently for each occurrence, substituted with 1 or more substituents selected, independently for each occurrence, from the group consisting of halo, OH, NH₂, NO₂ and CN;

or one of R² and R³ is $(\text{CH}_3)_2\text{-N}-\overset{\uparrow}{\text{C}}^+=\text{N}(\text{CH}_3)_2$, (C₁-C₃₀)acyl, (C₁-C₃₀)alkylsulfonyl, C(O)X⁵,

$\text{Y}(\text{CH}_2)_r\text{-N}\langle\text{C}_6\text{H}_{10}\rangle\text{N}(\text{CH}_2)_q\text{SO}_2\text{-}$ $\text{Y}(\text{CH}_2)_r\text{-N}\langle\text{C}_6\text{H}_{10}\rangle\text{N}(\text{CH}_2)_q\text{-CO-}$
, or ; wherein Y is H, OH or

NH₂; r is 0 to 4; q is 0 to 4; and X⁵ is (C₁-C₃₀)alkyl, (C₂-C₃₀)alkenyl, phenyl(C₁-C₃₀)alkyl, naphthyl(C₁-C₃₀)alkyl, hydroxy(C₁-C₃₀)alkyl, hydroxy(C₂-C₃₀)alkenyl, hydroxyphenyl(C₁-C₃₀)alkyl or hydroxynaphthyl(C₁-C₃₀)alkyl;

X⁶, X⁷, X⁸, X⁹, X¹⁰ for each occurrence is independently selected from the group consisting of H, (C₁-C₆)alkyl, OH, OR⁴, NO₂, CN, and halo;

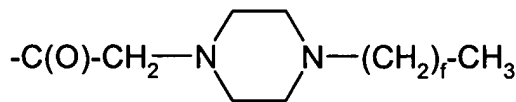
R⁴ is (C₁-C₃₀)alkyl, (C₂-C₃₀)alkenyl, phenyl(C₁-C₃₀)alkyl, naphthyl(C₁-C₃₀)alkyl, hydroxy(C₁-C₃₀)alkyl, hydroxy(C₂-C₃₀)alkenyl, hydroxyphenyl(C₁-C₃₀)alkyl or hydroxynaphthyl(C₁-C₃₀)alkyl;
e is, independently for each occurrence, an integer from 1 to 4 inclusive;

m is, independently for each occurrence, an integer from 5 to 24 inclusive;

s is, independently for each occurrence, an integer from 5 to 10 or from 12 to 20 inclusive;

n is, independently for each occurrence, an integer from 1 to 5, inclusive;

each of R¹⁰ and R¹¹ is, independently for each occurrence, H, (C₁-C₃₀)alkyl, (C₁-C₃₀)acyl, (C₁-



C₃₀)alkylsulfonyl, -C((NH)(NH₂)) or ; and

R¹² and R¹³ each is, independently for each occurrence, (C₁-C₃₀)alkyl;

provided that:

when A⁷ is Ura, Paa or Pta, then R² and R³ are deleted;

when R¹⁰ is (C₁-C₃₀)acyl, (C₁-C₃₀)alkylsulfonyl, -C((NH)(NH₂)) or

$-\text{C}(\text{O})-\text{CH}_2-\text{N}\langle\text{C}_6\text{H}_{10}\rangle\text{N}-(\text{CH}_2)_f-\text{CH}_3$, then R¹¹ is H or (C₁-C₃₀)alkyl;

(i) at least one amino acid of a compound of formula (I) is not the same as the native sequence of hGLP-1(7-38 or -39)NH₂ or hGLP-1(7-38 or -39)OH;

(ii) a compound of formula (I) is not an analogue of hGLP-1(7-38 or -39)NH₂ or hGLP-1(7-38, or -39)OH wherein a single position has been substituted by Ala;

(iii) a compound of formula (I) is not (Arg^{26,34}, Lys³⁸)hGLP-1(7-38)-E, (Lys²⁶(N^ε-alkanoyl))hGLP-1(7-38)-E, (Lys³⁴(N^ε-alkanoyl))hGLP-1(7-38)-E, (Lys^{26,34}-bis(N^ε-

alkanoyl))hGLP-1(7-38)-E, (Arg²⁶, Lys³⁴(N^ε-alkanoyl))hGLP-1(8-38)-E, (Arg^{26,34}, Lys³⁶(N^ε-alkanoyl))hGLP-1(7-38)-E or (Arg^{26,34}, Lys³⁸(N^ε-alkanoyl))hGLP-1(7-38)-E, wherein E is -OH or -NH₂;

(iv) a compound of formula (I) is not Z¹-hGLP-1(7-38)-OH, Z¹-hGLP-1(7-38)-NH₂; wherein Z¹ is selected from the group consisting of:

(a) (Arg²⁶), (Arg³⁴), (Arg^{26,34}), (Lys³⁶), (Arg²⁶, Lys³⁶), (Arg³⁴, Lys³⁶), (D-Lys³⁶), (Arg³⁶), (D-Arg³⁶), (Arg^{26,34}, Lys³⁶) or (Arg^{26,36}, Lys³⁴);

(b) (Asp²¹);

(c) at least one of (Aib⁸), (D-Ala⁸) and (Asp⁹); and

(d) (Tyr⁷), (N-acyl-His⁷), (N-alkyl-His⁷), (N-acyl-D-His⁷) or (N-alkyl-D-His⁷); and

(v) a compound of formula (I) is not a combination of any two of the substitutions listed in groups (a) to (d);

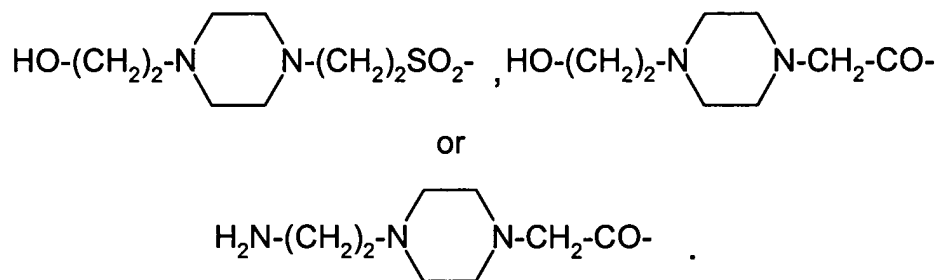
or a pharmaceutically acceptable salt thereof.

3. (Original) A compound according to claim 2, wherein A⁹ is Glu, N-Me-Glu or N-Me-Asp; A¹² is Phe, Acc, 1Nal, 2Nal, or Aic; A¹⁶ is Val, Acc or Aib; A¹⁹ is Tyr, 1Nal or 2Nal; A²⁰ is Leu, Acc or Cha; A²⁴ is Ala, Aib or Acc; A²⁵ is Ala, Aib, Acc, Lys, Arg, hArg, Orn, HN-CH((CH₂)_n-N(R¹⁰R¹¹))-C(O) or HN-CH((CH₂)_e-X³)-C(O); A²⁸ is Phe, 1Nal or 2Nal; A²⁹ is Ile or Acc; A³⁰ is Ala or Aib; A³² is Leu, Acc or Cha; and A³³ is Val, Lys or Acc; or a pharmaceutically acceptable salt thereof.

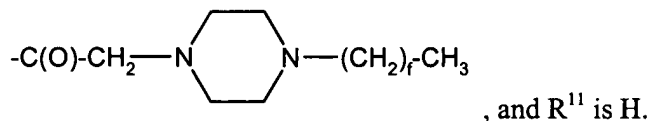
4. (Currently amended) A compound according to ~~claim 1~~ claim 2, wherein A⁸ is Ala, Gly, Ser, D-Ala, Aib, A6c, A5c, N-Me-Ala, N-Me-D-Ala or N-Me-Gly; A¹⁰ is Gly; A¹² is Phe, 1Nal, 2Nal, A6c or A5c; A¹⁶ is Val, A6c or A5c; A²⁰ is Leu, A6c, A5c or Cha; A²² is Gly, β-Ala, Glu or Aib; A²⁴ is Ala or Aib; A²⁹ is Ile, A6c or A5c; A³² is Leu, A6c, A5c or Cha; A³³ is Val, Lys, A6c or A5c; A³⁵ is Aib, β-Ala, Ado, A6c, A5c, D-Arg or Acc; A³⁷ is Gly, Aib, β-Ala, D-Ala, Pro, Asp, Aun or D-Asp; A³⁸ is D- or L- His, Asn, Ser, Apc, Act, Gly, β-Ala or Gaba; and A³⁹ is Ser, Thr or Aib; or a pharmaceutically acceptable salt thereof.

5. (Original) A compound according to claim 4 or a pharmaceutically acceptable salt thereof, X⁴ for each occurrence is -C(O)-; and R¹ is OH or NH₂; or a pharmaceutically acceptable salt thereof.

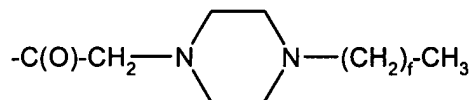
6. (Original) A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R^2 is H and R^3 is (C_1-C_{30}) alkyl, (C_2-C_{30}) alkenyl, (C_1-C_{30}) acyl, (C_1-C_{30}) alkylsulfonyl,



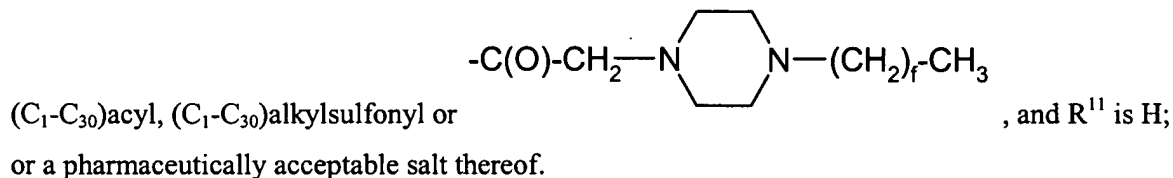
7. (Original) A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R^{10} is (C_1-C_{30}) acyl, (C_1-C_{30}) alkylsulfonyl or



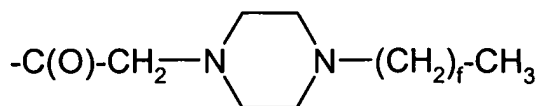
8. (Original) A compound according to claim 7 or a pharmaceutically acceptable salt thereof, wherein R^{10} is (C_4-C_{20}) acyl, (C_4-C_{20}) alkylsulfonyl or



9. (Currently amended) A compound according to ~~claim 1~~ claim 2, wherein:
 A^8 is Ala, D-Ala, Aib, A6c, A5c, N-Me-Ala, N-Me-D-Ala or N-Me-Gly; A^{10} is Gly; A^{12} is Phe, 1Nal, 2Nal, A6c or A5c; A^{16} is Val, A6c or A5c; A^{20} is Leu, A6c, A5c or Cha; A^{22} is Gly, β -Ala, Glu or Aib; A^{24} is Ala or Aib; A^{29} is Ile, A6c or A5c; A^{32} is Leu, A6c, A5c or Cha; A^{33} is Val, Lys, A6c or A5c; A^{35} is Aib, β -Ala, Ado, A6c, A5c or D-Arg; and A^{37} is Gly, Aib, β -Ala, D-Ala, Pro or D-Asp; A^{38} is D- or L- His, Asn, Ser, Gly, β -Ala or Gaba; and A^{39} is Ser, or deleted; X^4 for each occurrence is $-\text{C}(\text{O})-$; e for each occurrence is independently 1 or 2; R^1 is OH or NH_2 ; R^{10} is



10. (Original) A compound according to claim 9, wherein R¹⁰ is (C₄-C₂₀)acyl, (C₄-



C₂₀)alkylsulfonyl or

, or a pharmaceutically

acceptable salt thereof.

11. (Currently amended) A compound according to ~~claim 1~~ claim 2 wherein said compound is according to the formula:

(Aib^{8,35}, Arg^{26,34}, Phe³¹, Pro³⁷, Ser^{38,39})hGLP-1(7-39)-NH₂; (SEQ ID NO:1)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, Asn³⁸)hGLP-1(7-38)-NH₂; (SEQ ID NO:2)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, Ser³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:3)

(Aib^{8,35,37}, Gaba³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:4)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:5)

(Aib^{8,35}, Arg^{26,34}, Phe³¹, β-Ala³⁷, His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:6)

(Aib^{8,35,37}, Arg^{26,34}, D-His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:7)

(Aib^{8,35,37}, β-Ala³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:8)

(Aib^{8,35}, Arg^{26,34}, β-Ala³⁷, His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:9)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, Gly³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:10)

(Aib^{8,35,37}, Arg^{26,34}, Gly³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:11)

(Aib^{8,35,37}, Arg^{26,34}, β-Ala³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:12)

(Aib^{8,35,37}, Arg^{26,34}, Gaba³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:13)

(Aib^{8,35,37}, Arg³⁴, Phe³¹, His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:14)

(Aib^{8,35,37}, Arg^{26,34}, His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:15)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, Gaba³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:16)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, Ava³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:17)

(Aib^{8,35,37}, Arg^{26,34}, Ava³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:18)

(Aib^{8,35,37}, Arg³⁴, Phe³¹, D-His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:19)

(Aib^{8,35,37}, Arg³⁴, Phe³¹, Gly³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:20)

(Aib^{8,35,37}, Gly³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:21)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, D-His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:22)

(Aib^{8,35}, Arg^{26,34}, Phe³¹, β-Ala³⁷, D-His³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:23)

(Aib^{8,35,37}, Arg^{26,34}, Phe³¹, β-Ala³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:24)

(Aib^{8,35}, Arg^{26,34}, Phe³¹, β-Ala^{37,38})hGLP-1(7-38) NH₂; (SEQ ID NO:25)

(Aib^{8,35,37}, Arg³⁴, Phe³¹, β-Ala³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:26) or
(Aib^{8,35,37}, Arg³⁴, Phe³¹, Gaba³⁸)hGLP-1(7-38) NH₂; (SEQ ID NO:27)
or a pharmaceutically acceptable salt thereof.

12. (Currently amended) A pharmaceutical composition comprising an effective amount of a compound according to ~~claim 1~~ claim 2 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier or diluent.

13. (Withdrawn-currently amended) A method of eliciting an agonist effect from a GLP-1 receptor in a subject in need thereof which comprises administering to said subject an effective amount of a compound according to ~~claim 1~~ claim 2 or a pharmaceutically acceptable salt thereof.

14. (Withdrawn-currently amended) A method of treating a disease selected from the group consisting of Type I diabetes, Type II diabetes, obesity, glucagonomas, secretory disorders of the airway, metabolic disorder, arthritis, osteoporosis, central nervous system disease, restenosis, neurodegenerative disease, renal failure, congestive heart failure, nephrotic syndrome, cirrhosis, pulmonary edema, hypertension, treatment of respiratory distress, disorders wherein the reduction of food intake is desired, hypoglycemia and malabsorption syndrome associated with gastroectomy or small bowel resection, in a subject in need thereof which comprises administering to said subject an effective amount of a compound according to ~~claim 1~~ claim 2 or a pharmaceutically acceptable salt thereof.

15. (Withdrawn) A method according to claim 14 wherein said disease is Type I diabetes or Type II diabetes.

16-27. (Canceled)